# JVC

### CASSETTE RECEIVER РЕСИВЕР С КАССЕТНЫМ ПРОИГРЫВАТЕЛЕМ

# KS-FX845R

Detachable





For installation and connections, refer to the separate manual. Указания по установке и выполнению соединений приводятся в отдельной инструкции.



В соответствии с Законом Российской Федерации "О защите прав потребителей" срок службы (годности) данного товара "по истечении которого он может представлять опасность для жизни, здоровья потребителя, причинять вред его имуществу или окружающей среде" составляет семь (7) лет со дня производства. Этот срок является временем, в течение которого потребитель данного товара может безопасно им пользоваться при условии соблюдения инструкции по эксплуатации данного товара, проводя необходимое обслуживание, включающее замену расходных материалов и/или соответствующее ремонтное обеспечение в специализированном сервисном центре.

Дополнительные косметические материалы к данному товару, поставляемые вместе с ним, могут храниться в течение двух (2) лет со дня его производства.

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INSTRUCTIONS инструкции по эксплуатации



усский

### <u>How to reset your unit</u>

After detaching the control panel, press the reset button on the panel holder using a ball-point pen or a similar tool.

This will reset the built-in microcomputer.



#### Note:

Your preset adjustments—such as preset channels or sound adjustments—will also be erased.

### How to use the M (MODE) button

If you press M (MODE), the unit goes into functions mode, then the number buttons work as different function buttons.

• When connecting a JVC MP3-compatible CD changer: The ▲/▼ buttons will also work as +10/–10 buttons after pressing M (MODE).

Ex.: When number button 2 works as MO (monaural) button.



without pressing any of these buttons until the functions mode is cleared.

• Pressing M (MODE) again also clears the functions mode.

Thank you for purchasing a JVC product. Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

## CONTENTS

How to reset your unit How to use the M (MODE) button	2 2
LOCATION OF THE BUTTONS Control panel	<b>4</b> 4
BASIC OPERATIONS	5
Turning on the power Setting the clock	5 6
RADIO OPERATIONS	7 7 9 10
Tuning in to a preset station <b>RDS OPERATIONS</b> What you can do with RDS Other convenient RDS functions and adjustments	
TAPE OPERATIONS         Listening to a cassette         Finding the beginning of a tune         Other convenient tape functions         Prohibiting cassette ejection	18 18 19 19 20
SOUND ADJUSTMENTS Selecting preset sound modes (C-EQ: custom equalizer) Adjusting the sound	21

OTHER MAIN FUNCTIONS Changing the general settings (PSM) Detaching the control panel	<b>23</b> 23 26
CD CHANGER OPERATIONS Playing discs Selecting the playback modes	<b>27</b> 27 30
EXTERNAL COMPONENT OPERATIONS Playing an external component	<b>31</b> 31
DAB TUNER OPERATIONS         Tuning in to an ensemble and one of the services         Storing DAB services in memory         Tuning in to a preset DAB service         What you can do more with DAB	
PREPARING THE REMOTE CONTROLLER Remote controller	<b>36</b> 37
TROUBLESHOOTING	38
MAINTENANCE	40
SPECIFICATIONS	41

#### BEFORE USE \*For safety....

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

#### \*Temperature inside the car....

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

## LOCATION OF THE BUTTONS



- 1 Remote sensor
- 2 Control dial
- ③ ひ/I/ATT (standby/on/attenuator) button
- 4 SEL (select) button
- 5 FM/AM (DAB) button
- 6 ▲ (up) button
  - (tape direction) button
- 7 ▲ (eject) button
- 8 I V/M A buttons
- Image: (control panel release) button
- 10 DISP (display) button
  - Also functions as SSM buttons when pressed together with M (MODE) button.
- 11 M (MODE) button
  - Also functions as SSM buttons when pressed together with DISP (display) button.
- 12 Display window
- 13 EQ (equalizer) button
- 14 MO (monaural) button
- 15 RPT (repeat) button
- 16 RND (random) button
  - Functions only when connecting to a CD changer.
- 17 Number buttons
- III T (TP/PTY: traffic programme/programme type) button

- 19 TAPE (CD-CH: CD changer) button
- 20 ▼ (down) button
- Display window
- 21 LOUD (loudness) indicator
- 22 EQ (equalizer) indicator
- 23 (tape-in) indicator
- 24 TAPE indicator
- 25 CD-CH (CD changer) indicator
- 26 FM band indicators (FM1, FM2, FM3)
- 27 AM band indicator
- Z8 Tuner reception indicators MO (monaural), ST (stereo)
- 29 RDS indicators AF, REG, TP, PTY
- 30 Volume (or audio) level indicator
- 31 MP3 indicator
  - Lights up only when playing an MP3 disc on a JVC MP3-compatible CD changer.
- 32 🔊 (disc) indicator
  - Lights up only when connecting to a CD changer.
- 33 Main display
- 34 RND (random) indicator
  - Lights up only when connecting to a CD changer.
- 35 RPT (repeat) indicator

## BASIC OPERATIONS 🧵



### Turning on the power



### Note on One-Touch Operation:

When you select a source in step **2** below, the power automatically comes on. You do not have to press this button to turn on the power.

### **2** Select the source.



- To operate the tuner (FM or AM), see pages 7 - 17. To play a tape, see pages 18 - 20. To operate the CD changer, see pages 27 - 30.
- To operate the external component (LINE IN), see page 31.

To operate the DAB tuner, see pages 32 – 35. **3** Adjust the volume.



Volume (or audio) level indicator (see page 25)



Volume level appears.

**4** Adjust the sound as you want. (See pages 21 and 22.)

### To drop the volume in a moment

Press **U**/I/ATT briefly while listening to any source. "ATT" starts flashing on the display, and the volume level will drop in a moment.

To resume the previous volume level, press the button briefly again.

• If you turn the control dial, you can also restore the sound.

### To turn off the power

Press and hold **U/I/ATT** for more than one second.

"SEE YOU" appears, then the unit turns off.





### Setting the clock

You can also set the clock system to either 24 hours or 12 hours.

Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see page 24.)



### **2** Set the hour.

- Select "CLOCK H" (hour) if not shown on the display.
- 2 Adjust the hour.





### **3** Set the minute.

- 1 Select "CLOCK M" (minute).
- 2 Adjust the minute.





- 4 Set the clock system. 1 Select "24H/12H."
  - 2 Select "24H" or "12H."



2

**5** Finish the setting.



## To check the current clock time or change the display mode



Press DISP (display) repeatedly. Each time you press the button, the display mode changes as follows:

• During tuner operation:

### Frequency 🔶 Clock

- For the indication change during RDS operation, see page 16.
- For the indication change during DAB operation, see page 33.
- During tape operation:

Play mode (TAPE) ←→ Clock

During CD changer operation:

┌➤ Elapsed playing time → Disc number -

Clock 🚽

During external component operation:

### LINE IN $\leftarrow$ Clock

During power off:

The power turns on and the clock time is shown for about 5 seconds, then the power turns off.

6

## RADIO OPERATIONS





### Listening to the radio

You can use either automatic searching or manual searching to tune in to a particular station.

### <u>Searching a station automatically:</u> <u>Auto search</u>

### Select the band (FM1 – 3, AM).



Each time you press the button, the band changes as follows:

$$\rightarrow$$
 FM1  $\rightarrow$  FM2  $\rightarrow$  FM3  $\rightarrow$  AM  $-$ 

Selected band appears.



Lights up when receiving an FM stereo broadcast with sufficient signal strength.

#### Note:

This receiver has three FM bands (FM1, FM2, FM3). You can use any one of them to listen to an FM broadcast.

**2** Start searching a station.



To search stations of higher frequencies

To search stations of lower frequencies

When a station is received, searching stops.

### To stop searching before a station is received,

press the same button you have pressed for searching.

#### Note:

FM1 and FM2: 87.5 MHz – 108.0 MHz FM3: 65.00 MHz – 74.00 MHz



### Searching a station manually: Manual search

### Select the band (FM1 – 3, AM).



Each time you press the button, the band changes as follows:

→ FM1 → FM2 → FM3 → AM

### Note:

This receiver has three FM bands (FM1, FM2, FM3). You can use any one of them to listen to an FM broadcast.

2 Press and hold ►► ∧ or ◄◄ ∨ until "M" (manual) starts flashing on the display.

## When an FM stereo broadcast is hard to receive:



1 Press M (MODE) to enter the functions mode while listening to an FM stereo broadcast.



**2** Press MO (monaural), while still in the functions mode, so that the MO indicator lights up on the display.

Each time you press the button, the MO indicator lights up and goes off alternately.

MO (monaural) indicator



When the MO indicator is lit on the display, the sound you hear becomes monaural but the reception will be improved.





**3** Tune in to a station you want while "M" (manual) is flashing.



To tune in to stations of higher frequencies

To tune in to stations of lower frequencies

- If you release your finger from the button, the manual mode automatically turns off after 5 seconds.
- If you hold down the button, the frequency keeps changing—in 50 kHz intervals (87.5 MHz 108.0 MHz for FM 1 and FM 2), in 30 kHz intervals (65.00 MHz 74.00 MHz for FM 3) and 9 kHz for AM—MW/LW until you release the button.

### Storing stations in memory

You can use one of the following two methods to store broadcasting stations in memory.

- · Automatic preset of FM stations: SSM (Strongstation Sequential Memory)
- Manual preset of both FM and AM stations

### FM station automatic preset: SSM

You can preset 6 local FM stations in each FM band (FM1, FM2, and FM3).

1 Select the FM band (FM1 – 3) you want to store FM stations into.



Each time you press the button, the band changes as follows:

► FM1 → FM2 → FM3 → AM-

2 Press and hold both buttons for more than 2 seconds.



"- -SSM- -" appears, then disappears when automatic preset is over.

Local FM stations with the strongest signals are searched and stored automatically in the band number you have selected (FM1, FM2, or FM3). These stations are preset in the number buttons -No.1 (lowest frequency) to No.6 (highest frequency).

When automatic preset is over, the station stored in number button 1 will be automatically tuned in.

### Manual preset

You can preset up to 6 stations in each band (FM1, FM2, FM3, and AM) manually.

Ex.: Storing FM station of 92.5 MHz into the preset number 1 of the FM1 band.

1 Select the band (FM1 - 3, AM) you want to store stations into (in this example, FM1).



Each time you press the button, the band changes as follows:

≻FM1 → FM2 → FM3 → AM-

### Tune in to a station (in this example, of 92.5 MHz).







**3** Press and hold the number button (in this example, 1) for more than 2 seconds.

7 EQ

# × × <u>19</u>25 <u>1</u>

"P1" flashes for a few seconds.

**4** Repeat the above procedure to store other stations into other preset numbers.

#### Notes:

- A previously preset station is erased when a new station is stored in the same preset number.
- Preset stations are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the stations again.

### Tuning in to a preset station

You can easily tune in to a preset station. Remember that you must store stations first. If you have not stored them yet, see "Storing stations in memory" on pages 9 and 10.

### Select the band (FM1 – 3, AM).



Each time you press the button, the band changes as follows:

### → FM1 → FM2 → FM3 → AM-

2 Select the number (1 – 6) for the preset station you want.



### What you can do with RDS

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular programme signals. For example, the stations send their station names, as well as information about what type of programme they broadcast, such as sports or music, etc.

Another advantage of RDS function is called "Enhanced Other Networks." By using the Enhanced Other Networks data sent from a station, you can tune in to a different station of a different network broadcasting your favorite programme or traffic announcement while listening to another programme or to another source such as tape.

By receiving the RDS data, this unit can do the following:

- Tracing the same programme automatically (Network-Tracking Reception)
- Standby Reception of TA (Traffic Announcement) or your favorite programme
- PTY (Programme Type) search
- Programme search
- And some other functions

### <u>Tracing the same programme</u> <u>automatically (Network-Tracking</u> <u>Reception)</u>

When driving in an area where FM reception is not good, the tuner built in this unit automatically tunes in to another RDS station, broadcasting the same programme with stronger signals. So, you can continue to listen to the same programme in its finest reception, no matter where you drive. (See the illustration on page 17.)

Two types of the RDS data are used to make Network-Tracking Reception work correctly—PI (Programme Identification) and AF (Alternative Frequency).

Without receiving these data correctly from the RDS station you are listening to, Network-Tracking Reception will not operate.

### To use Network-Tracking Reception

**RDS OPERATIONS** 

You can select the different modes of networktracking reception to continue listening to the same programme in its finest reception. When shipped from the factory, "AF" is selected.

- AF: Network-Tracking Reception is activated without Regionalization. With this setting, the unit switches to another station within the same network when the receiving signals from the current station become weak. (In this mode, the programme may differ from the one currently received.) The AF indicator lights up but the BFG indicator does not
- AF REG: Network-Tracking Reception is activated with Regionalization. With this setting, the unit switches to another station, within the same network, broadcasting the same programme when the receiving signals from the current station become weak. Both the AF and REG indicators light
- OFF: Network-Tracking Reception is deactivated. Neither the AF nor REG indicator lights up.

up.



### Note:

If a DAB tuner is connected and Alternative Reception (for DAB services) is activated, Network-Tracking Reception ("AF") is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception. (See page 35.)





Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see page 24.)



**2** Select "AF-REG" (alternative frequency/regionalization reception) if not shown on the display.



3 Select the desired mode—"AF," "AF REG," or "OFF."



**4** Finish the setting.



### Using TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from the current source (another FM station, tape, or other connected components).

• TA Standby Reception will not work if you are listening to an AM station.

Press T (TP/PTY) to activate TA Standby Reception.



- When the current source is FM, the TP indicator either lights up or flashes.
  - If the TP indicator lights up, TA Standby Reception is activated.

If a station starts broadcasting a traffic announcement, "TRAFFIC" appears on the display, and this unit automatically tunes in to the station. The volume changes to the preset TA volume level (see page 16) and the traffic announcement can be heard.

 If the TP indicator flashes, TA Standby Reception is not yet activated since the station being received does not provide the signals used for TA Standby Reception. To activate TA Standby Reception, you need to tune in to another station providing these signals.

Press  $\rightarrow$  or  $\rightarrow$  to search for such a station.

When a station providing these signals is tuned in, the TP indicator stops flashing and remains lit. Now TA Standby Reception is activated.

### ■ When the current source is other than FM,

the TP indicator lights up.

If a station starts broadcasting a traffic announcement, "TRAFFIC" appears on the display, and this unit automatically changes the source and tunes in to the station.

#### To deactivate the TA Standby Reception,

press T (TP/PTY) again. The TP indicator goes off.



### Using PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite programme (PTY: Programme Type) from the current source (another FM station, tape, or other connected components).

• *PTY Standby Reception will not work if you are listening to an AM station.* 

You can select your favorite programme type for PTY Standby Reception.

When shipped from the factory, PTY Standby Reception is turned off. ("OFF" is selected for PTY Standby Reception.)

Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see page 24.)



2 Select "PTY STBY" (standby) if not shown on the display.



**3** Select one of the twenty-nine PTY codes. (See page 17.)



Selected code name appears on the display and is stored into memory.

**4** Finish the setting.



- When the current source is FM, the PTY indicator either lights up or flashes.
  - If the PTY indicator lights up, PTY Standby Reception is activated.
     If a station starts broadcasting the selected PTY programme, this unit automatically tunes in to the station.
  - If the PTY indicator flashes, PTY Standby Reception is not yet activated since the station being received does not provide the signals used for PTY Standby Reception. To activate PTY Standby Reception, you need to tune in to another station providing these signals.

Press  $\rightarrow i$   $\wedge$  or  $i \rightarrow i$  to search for such a station.

When a station providing these signals is tuned in, the PTY indicator stops flashing and remains lit. Now PTY Standby Reception is activated.

■ When the current source is other than FM, the PTY indicator lights up.

If a station starts broadcasting the selected PTY programme, this unit automatically changes the source and tunes in to the station.

### To deactivate the PTY Standby Reception,

select "OFF" in step **3** on the left column. The PTY indicator goes off.



### Searching your favorite programme

You can search any one of the PTY codes. In addition, you can store your 6 favorite programme types in the number buttons. When shipped from the factory, the following 6 programme types have been stored in the number buttons (1 to 6).

### To store your favorite programme types, see below.

To search your favorite programme type, see page 15.

1	2	3
POP M	ROCK M	EASY M
4	5	6
CLASSICS	AFFAIRS	VARIED

To store your favorite programme types

Press and hold T (TP/PTY) for more than 2 seconds while listening to an FM station.



The last selected PTY code appears.

**2** Select one of the twenty-nine PTY codes. (See page 17.)



Selected code name appears on the display.

**3** Press and hold the number button for more than 2 seconds to store the PTY code selected into the preset number you want.



"MEMORY" and the selected code name will appear alternately.

**4** Press and hold T (TP/PTY) for more than 2 seconds to exit from this mode.

TP/PTY



### To search your favorite programme type

Press and hold T (TP/PTY) for more than 2 seconds while listening to an FM station.



The last selected PTY code appears.

### To select one of your favorite programme type



## To select any one of the twenty-nine PTY-codes



Ex.: When "ROCK M" is selected

**3** Press ►► A or I ◄◄ ∨ to start PTY search for your favorite programme.



- If there is a station broadcasting a programme of the same PTY code as you have selected, that station is tuned in.
- If there is no station broadcasting a programme of the same PTY code as you have selected, the station will not change.

#### Note:

In some areas, the PTY search will not work correctly.

### Other convenient RDS functions and adjustments

### <u>Automatic selection of the station</u> when using the number buttons

Usually when you press the number button, the preset station is tuned in.

However, when the preset station is an RDS station, something different will happen. If the signals from that preset station are not sufficient for good reception, this unit, using the AF data, tunes in to another frequency broadcasting the same programme as the original preset station is broadcasting. (Programme search)

• The unit takes some time to tune in to another station using programme search.

To activate programme search, follow the procedure below.

- See also "Changing the general settings (PSM)" on page 23.
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Press ►►I ∧ or Idd ∨ to select "P(Programme)-SEARCH."
- **3** Turn the control dial clockwise to select "ON." Now programme search is activated.
- 4 Press SEL (select) to finish the setting.

To cancel programme search, repeat the same procedure and select "OFF" in step **3** by turning the control dial counterclockwise.



You can change the initial indication on the display to station name (PS NAME) or station frequency (FREQ) while listening to an FM RDS station.

- See also "Changing the general settings (PSM)" on page 23.
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Press ►►I ∧ or I ◄ ∨ to select "DISPMODE" (display mode).
- 3 Turn the control dial to set to the desired indication ("PS NAME," "FREQ," or "CLOCK").
- 4 Press SEL (select) to finish the setting.

#### Note:

By pressing DISP (display), you can change the display while listening to an FM RDS station. Each time you press the button, the following information appears on the display:



• Then, the display goes back to the original indication in several seconds.

### Setting the TA volume level

You can preset the volume level for TA Standby Reception. When a traffic programme is received, the volume level automatically changes to the preset level.

- See also "Changing the general settings (PSM)" on page 23.
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Press ►►I ▲ or I◄◀ ➤ to select "TA VOL" (TA volume).
- **3** Turn the control dial to set to the desired volume.
  - You can set it from "VOL 00" to "VOL 50."
- 4 Press SEL (select) to finish the setting.

### Automatic clock adjustment

When shipped from the factory, the clock built in this unit is set to be readjusted automatically using the CT (Clock Time) data in the RDS signal. If you do not want to use automatic clock adjustment, follow the procedure below.

- See also "Changing the general settings (PSM)" on page 23.
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Press ►►I ∧ or I ◄ ➤ to select "AUTO ADJ" (adjustment).
- 3 Turn the control dial counterclockwise to select "OFF."
- Now automatic clock adjustment is canceled.
- 4 Press SEL (select) to finish the setting.

To reactivate clock adjustment, repeat the same procedure and select "ON" in step 3 by turning the control dial clockwise.

#### Note:

You must stay tuned to the same station for more than 2 minutes after setting "AUTO ADJ" to "ON." Otherwise, the clock time will not be adjusted. (This is because the unit takes up to 2 minutes to capture the CT data in the RDS signal.)

### **PTY codes**

NEWS: AFFAIRS:	News Topical programmes expanding	CHILDREN:	Entertainment programmes for children
	on current news or affairs	SOCIAL:	Programmes on social activities
INFO:	Programmes which impart advice on a wide variety of topics	RELIGION:	Programmes dealing with any aspect of belief or faith, or the nature of existence or ethics
SPORT:	Sport events	PHONE IN:	Programmes where people can
EDUCATE:	Educational programmes		express their views either by
DRAMA:	Radio plays		phone or in a public forum
CULTURE:	Programmes on national or	TRAVEL:	Programmes about travel
	regional culture		destinations, package tours, and
SCIENCE:	Programmes on natural		travel ideas and opportunities
	science and technology	LEISURE:	Programmes concerned with
VARIED:	Other programmes like		recreational activities such as
	comedies or ceremonies		gardening, cooking, fishing, etc.
POP M:	Pop music	JAZZ:	Jazz music
ROCK M:	Rock music	COUNTRY:	Country music
EASY M:	Easy-listening music	NATION M:	Current popular music from
LIGHT M:	Light music		another nation or region, in that
CLASSICS:			country's language
OTHER M:	Other music	OLDIES:	Classic pop music
WEATHER:		FOLK M:	Folk music
FINANCE:	Reports on commerce, trading, the Stock Market, etc.	DOCUMENT:	Programmes dealing with factual matters, presented in an investigative style

#### The same programme can be received on different frequencies.





### Listening to a cassette

You can play back type I (normal) tapes.

### Open the control panel.



### Note on One-Touch Operation:

When a cassette is already in the cassette compartment, pressing TAPE (CD-CH) turns on the unit and starts tape play automatically.

## **2** Insert a cassette into the cassette compartment.



The unit turns on and tape play starts automatically.

### **3** Close the control panel by hand.



### **4** Select the tape direction.



Each time you press ◀►, the tape direction alternates between forward (TRPE → → →) and reverse (TRPE → ↔ ↔).

### To stop play and eject the cassette

#### Press ▲.

Tape play stops, the control panel flips down. The cassette automatically ejects from the cassette compartment. The source changes to the previously selected one.

If you change the source, tape play also stops (without ejecting the cassette this time).

• You can also eject the cassette by pressing ▲ while the unit is turned off.

### To fast-forward and rewind a tape



Press and hold  $\rightarrow \rightarrow i$  for more than one second to fast-forward the tape. When the tape reaches its end, the tape is reversed and playback starts from the beginning of the other side.

Press and hold I ◄ ✓ for more than one second to rewind the tape.

When the tape reaches its end, playback of the same side starts.

## To stop fast-forward and rewind at any position on the tape, press ◄►.

Tape play starts from that position on the tape.

#### Notes:

- When one side of the tape reaches its end during play, the other side of the tape automatically starts playing. (Auto Reverse)
- When the tape reaches its end while fastforwarding, the tape direction will be changed automatically.



### Finding the beginning of a tune

Multi Music Scan (MMS) allows you to automatically start playback from the beginning of a specified tune. You can specify up to 9 tunes ahead of or before the current tune.

### **During playback**

Specify the tune you want to locate (how many tunes ahead of or before the current tune).



Press **I** A to locate a tune ahead of the current tune on the cassette.

Press I v to locate a tune before the current tune on the cassette.



Ex.: When you locate three tunes ahead of the current tune

Each time you press the buttons, the number changes up to ±9.

When the beginning of the specified tune is located, playback starts automatically.

#### Notes:

- While locating a specified tune:
  - If the tape is rewound to its beginning, playback starts from the beginning of that side.
  - If the tape is fast-forwarded to the end, it is reversed and played from the beginning of the other side
- · In the following cases, the Multi Music Scan function may not operate correctly:
  - Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portions between tunes.
  - Tapes with short non-recorded sections.
  - Tapes with high level of noise or humming between tunes.
  - Tapes with tunes recorded at low recording levels.

### Other convenient tape functions

### Skipping the blank portions on the tape

You can skip blank portions between the tunes (Blank Skip).

When this function is turned on, the unit fastforwards (skipping blank portions of 15 seconds or more), to the next tune and starts playback.

- See also "Changing the general settings" (PSM)" on page 23.
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see page 24.)





#### Press $\rightarrow$ $\rightarrow$ or $\rightarrow$ to select "B.SKIP" (blank skip).



Now Blank Skip is activated.





To cancel Blank Skip, repeat the same procedure and select "OFF" in step 3 by turning the control dial counterclockwise.

### Playing the current tune repeatedly

You can play the current tune repeatedly (Repeat Play).



 Press M (MODE) to enter the functions mode while playing a tune you want to hear over again on a cassette.

5

11 RPT

2 Press RPT (repeat), while still in the functions mode, so that "REPEAT" appears on the display.



Lights up when Repeat Play is turned on.

When the tune has been played, the tape is automatically rewound to the beginning of that tune and the same tune will be played again.

To cancel Repeat Play, repeat steps 1 and 2 again so that the RPT indicator goes off.

#### Note:

In the following cases, Blank Skip and Repeat Play may not operate correctly:

- Tapes with tunes having long pianissimo passages (very quiet parts) or non-recorded portions during tunes.
- Tapes with short non-recorded sections.
- Tapes with high level noise or humming between tunes.
- Tapes with tunes recorded at low recording levels.

### Prohibiting cassette ejection

You can prohibit cassette ejection and lock a cassette in the cassette compartment.

## While pressing TAPE (CD-CH), press and hold 0/1/ATT for more than 2 seconds.



"NO EJECT" flashes on the display for about 5 seconds, and the cassette is locked and cannot be ejected.



## To cancel the prohibition and unlock the cassette

While pressing TAPE (CD-CH), press and hold **b**/1/ATT again for more than 2 seconds. "EJECT OK" flashes on the display for about 5 seconds, and the cassette is unlocked.



#### Note:

If you press  $\triangleq$  while cassette ejection is prohibited, the control panel flips down, but the cassette continues to play and cannot be ejected.



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## SOUND ADJUSTMENTS

# Selecting preset sound modes (C-EQ: custom equalizer)

You can select a preset sound mode (C-EQ: custom equalizer) suitable to the music genre.

- There is a time limit in doing the following procedure. If the setting is canceled before you finish, start from step **1** again.
- Press M (MODE) to enter the functions mode.

## **2** Press EQ (equalizer), while still in the functions mode.



The last selected sound mode is recalled and applied to the current source.

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Ex.: If you have selected "USER" previously

### Select the sound mode you want.

7 EQ

Each time you press the button, the sound modes change as follows:



The EQ indicator lights up when any sound mode other than "USER" is selected.



Ex.: When you select "ROCK"

Indication	For:	Preset values		lues
		BAS	TRE	LOUD
USER	(Flat sound)	00	00	OFF
ROCK	Rock or disco music	+03	+01	ON
CLASSIC	Classical music	+01	-02	OFF
POPS	Light music	+04	+01	OFF
HIP HOP	P HOP Funk or rap music		00	ON
JAZZ	Jazz music	+02	+03	OFF

#### Note:

You can adjust each sound mode to your preference. Once you make an adjustment, it is automatically stored for the currently selected sound mode. See "Adjusting the sound" on page 22.



1

### Adjusting the sound

You can adjust the sound characteristics to your preference.

### Select the item you want to adjust.



Each time you press the button, the adjustable items change as follows:

→ BAS → TRE → FAD (bass) (treble) (fader) VOL ← LOUD ← BAL ← (volume) (loudness) (balance)

Indiantian	Tada	Demma
Indication	To do:	Range
BAS*1	Adjust the bass.	-06 (min.)   +06 (max.)
TRE <sup>*1</sup>	Adjust the treble.	-06 (min.)   +06 (max.)
FAD*2	Adjust the front and rear speaker balance.	R06 (Rear only) I F06 (Front only)
BAL	Adjust the left and right speaker balance.	L06 (Left only) I R06 (Right only)
LOUD*1	Boost low and high frequencies to produce a well- balanced sound at low volume level.	LOUD ON I LOUD OFF
VOL*3	Adjust the volume.	00 (min.) I 50 (max.)

- \*1 When you adjust the bass, treble, or loudness, the adjustment you have made is stored for the currently selected sound mode (C-EQ) including "USER."
- \*2 If you are using a two-speaker system, set the fader level to "00."
- \*3 Normally the control dial work as the volume control. So you do not have to select "VOL" to adjust the volume level.

### **2** Adjust the setting.



To increase the level or turn on the loudness

To decrease the level or turn off the loudness

Equalization pattern changes as you adjust the bass or treble.



Ex. 1: When you adjust "TRE" (treble)



Ex. 2: When you turn on the loudness

**3** Repeat steps **1** and **2** to adjust the other items.

To reset each sound mode to the factory settings, repeat the same procedure and reassign the preset values listed in the table on page 21.

### Changing the general settings **3** Adjust the PSM item selected. (PSM)

You can change the items listed in the table on page 24 by using the PSM (Preferred Setting Mode) control.

### **Basic Procedure**

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (See page 24.)





previously

Select the PSM item you want to adjust. (See page 24.)



Ex.: When you select "LEVEL"



**OTHER MAIN FUNCTIONS** 



Ex.: When you select "AUDIO 2"

4 Repeat steps 2 and 3 to adjust the other PSM items if necessary.



5

### Preferred Setting Mode (PSM) items

• For detailed operations of each PSM items, refer to the pages listed in the table.

	Indications	Selectable values/items		Factory-preset settings	See page
СLОСК Н	Hour adjustment	0 – 23 (	(1 – 12)	0 (0:00)	6
СLОСК М	Minute adjustment	- 00	- 59	00 (0:00)	6
24H/12H	24/12-hour time display	12H	24H	24H	6
AUTO ADJ	Automatic clock setting	OFF	ON	ON	16
DISPMODE	Display mode	PS NAME ₊ Ĉ→ CLO	→ FREQ DCK ←	PS NAME	16
CH DISP	Changer display	TIME	DISC	DISC	25
AF-REG	Alternative frequency/ Regionalization reception	AF ← ↓ OF	→ AF REG F*1 ←	AF	11, 12
PTY STBY	PTY standby	OFF → 29 programme types (see page 17)		OFF	13
TA VOL	Traffic announcement volume	VOL 00 -	- VOL 50	VOL 20	16
P-SEARCH	Programme search	OFF	ON	OFF	15
DAB AF*2	Alternative frequency	AF OFF	AF ON	AF ON	35
DAB VOL*2	DAB volume adjustment	VOL -12 VOL 12		VOL 00	35
LEVEL	Level display	AUDIO 1 ↔ AUDIO 2		AUDIO 2	25
TEL	Telephone muting	$\begin{array}{ccc} \text{MUTING 1} & \longleftrightarrow & \text{MUTING 2} \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & &$		OFF	25
B.SKIP	Blank skip	OFF ON		OFF	19
EXT IN*3	External component	CHANGER	LINE IN	CHANGER	25

\*1 Displayed only when the "DAB AF" is set to "AF OFF."

\*2 Displayed only when the DAB tuner is connected.

\*3 Displayed only when one of the following sources is selected—FM, AM, and TAPE.



### To set the changer display—CH DISP

This mode is used to check the display information of the CD changer. When shipped from the factory, "DISC" is selected.

- DISC: Disc number and track number (or folder number if the current playing disc is an MP3 disc) appear.
- TIME: Elapsed playing time and track number appear.

### To select the level meter—LEVEL

You can select the level meter display according to your preference.

When shipped from the factory, "AUDIO 2" is selected.

- AUDIO 1: Shows the audio level indicator.
- AUDIO 2: Alternates "AUDIO 1" setting and illumination display.
- OFF: Erases the audio level indicator.

### To select the telephone muting—TEL

This mode is used when a cellular phone system is connected. Depending on the phone system used, select either "MUTING 1" or "MUTING 2" whichever mutes the sounds from this unit. When shipped from the factory, this mode is deactivated.

- MUTING 1: Select this if this setting can mute the sounds while using the cellular phone.
- MUTING 2: Select this if this setting can mute the sounds while using the cellular phone.
- OFF: Cancels the telephone muting.

### To select the external component to use —EXT IN

You can connect the external component to the CD changer jack on the rear using the Line Input Adapter KS-U57 (not supplied).

To use the external component as the playback source through this unit, you need to select which component—CD changer or external component—to use.

When shipped from the factory, CD changer is selected as the external component.

- CHANGER: To use the CD changer.
- LINE IN: To use the external component other than CD changer.

#### Note:

For connecting the Line Input Adapter KS-U57 and the external component, refer to the Installation/ Connection Manual (separate volume).



### Detaching the control panel

You can detach the control panel when leaving the car.

When detaching or attaching the control panel, be careful not to damage the connectors on the back of the control panel and on the panel holder.

### Detaching the control panel

Before detaching the control panel, be sure to turn off the power.

### **1** Unlock the control panel.



**2** Pull the control panel out of the unit.



**3** Put the detached control panel into the provided case.



### Attaching the control panel

Insert the right side of the control panel into the groove on the panel holder.



**2** Press the left side of the control panel to fix it to the panel holder.



#### **Note on cleaning the connectors:** If you frequently detach the control panel, the connectors will deteriorate.

To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



## CD CHANGER OPERATIONS





We recommend that you use the JVC MP3compatible CD changer with your unit.

By using this CD changer, you can play back vour original CD-Rs (Recordable) and CD-RWs (Rewritable) recorded either in audio CD format or in MP3 format.

- You can also connect other CH-X series CD changers (except CH-X99 and CH-X100). However, they are not compatible with MP3 discs, so you cannot play back MP3 discs.
- You cannot use the KD-MK series CD. changers with this unit.

Before operating your CD changer:

- · Refer also to the Instructions supplied with your CD changer.
- · If no discs are in the magazine of the CD changer or the discs are inserted upside down, "NO CD" will appear on the display. If this happens, remove the magazine and set the discs correctly.
- If no magazine is loaded in the CD changer, "NO MAG" appears on the display. If this happens, insert the magazine in the CD changer.
- If "RESET 1" "RESET 8" appears on the display, something is wrong with the connection between this unit and the CD changer. If this happens, check the connection and make sure the cords are connected firmly. Then, press the reset button of the CD changer.

### Playing discs

### Select the CD changer (CD-CH).



- If you have not connected a CD changer, or if you have changed the "EXT IN" setting to "LINE IN" (see page 25), you cannot select the CD changer.
- When the current disc is an MP3 disc: Playback starts from the first folder of the current disc once file check is completed.

MP3 indicator lights up.



If you have selected "TIME" for "CH DISP" (see page 25), the display changes as follows:



Elapsed playing time

File number



#### • When the current disc is a CD: Playback starts from the first track of the

current disc.



If you have selected "TIME" for "CH DISP" (see page 25), the display changes as follows:



Elapsed playing time Track number

#### Notes:

- When you press TAPE (CD-CH), the power automatically comes on. You do not have to press O/1/ATT to turn on the power.
- If you change the source, CD changer play also stops. Next time you select the CD changer as the source, CD changer play starts from where playback has been stopped previously.

### To fast-forward or reverse the track/file



Press and hold  $\rightarrow h$ , during play, to fast-forward the track/file.

Press and hold I◄◀ ➤, during play, to reverse the track/file.

#### Note:

During this operation on an MP3 disc, you can only hear intermittent sounds. (The elapsed playing time also changes intermittently on the display.)

### To go to the next or previous tracks/files



Press >> A briefly during play, to skip ahead to the beginning of the next track/ file.

Each time you press the button consecutively, the beginning of the next tracks/files is located and played back.

Press I ◄ ✓ briefly during play, to skip back to the beginning of the current track/file. Each time you press the button consecutively, the beginning of the previous tracks/files is located and played back.

### To go to a particular disc directly

Press the number button corresponding to the disc number to start its playback (while the CD changer is playing).



- To select a disc number from 1 6: Press 1 (7) – 6 (12) briefly.
- To select a disc number from 7 12: Press and hold 1 (7) – 6 (12) for more than one second.



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This operation is only possible when using JVC MP3-compatible CD changer (CH-X1500).

### To go to a track/file quickly

**1** Press M (MODE) to enter the functions mode while playing a disc.



2 Press ▲ (up) or ▼ (down) while still in the functions mode.



To skip 10 tracks/files\* forwards to the last track/file

To skip 10 tracks/files\* backwards to the first track/ file

\* The first time you press ▲ (up) or ▼ (down) button, the track/file skips to the nearest higher or lower track with a track/file number of multiple ten (ex. 10th, 20th, 30th).

Then each time you press the button, you can skip 10 tracks/files (see "How to go to the desired track/file quickly" on the right column).

• After the last track/file, the first track/file will be selected, and vice versa.

#### Note:

If the current playing disc is an MP3 disc, files are skipped within the same folder.



## To skip to the next or previous folder (only for MP3 discs)



Press  $\blacktriangle$  (up) while playing an MP3 disc, to go to the next folder.

Each time you press the button consecutively, the next folder is located, and the first file in the folder starts playback.

Press  $\checkmark$  (down) while playing an MP3 disc, to go to the previous folder.

Each time you press the button consecutively, the previous folder is located, and the first file in the folder starts playback.

29





### Note:

MP3 indicator also lights up if the current playing disc is an MP3 disc.

Mode	Active indicator	Plays at random
DISC RND	and RND indicators light up.	All tracks/files of the current (or specified) disc.
MAG RND	RND indicator lights up.	All tracks/files of the inserted discs.

### To play back tracks/files repeatedly (Track Repeat/Disc Repeat Play)

- 1 Press M (MODE) to enter the functions mode during
- 2 Press RPT (repeat), while still in the functions mode, so that "TRK RPT" or "DISC RPT" appears on the display. Each time you press the button, the repeat play mode changes as follows:



RPT indicator lights up.



Ex.: When you select "TRK RPT"

MP3 indicator also lights up if the current playing disc is an MP3 disc.

Mode	Active indicator	Plays repeatedly
TRK RPT	RPT indicator lights up.	The current (or specified) track/file.
DISC RPT	and RPT indicators light up.	All tracks/files of the current (or specified) disc.

## EXTERNAL COMPONENT OPERATIONS



### Playing an external component

You can connect the external component to the CD changer jack on the rear using the Line Input Adapter KS-U57 (not supplied).

#### Preparations:

- For connecting the Line Input Adapter KS-U57 and the external component, refer to the Installation/ Connection Manual (separate volume).
- Before operating the external component using the following procedure, select the external input correctly. See "To select the external component to use—EXT IN" on page 25.
- Select the external component (LINE IN).



- If "LINE IN"\* does not appear on the display, see page 25 and select the external input ("LINE IN").
- \* Displayed only when one of the following sources is selected—FM, AM, and TAPE.

#### Note on One-Touch Operation:

When you press TAPE (CD-CH), the power automatically comes on. You do not have to press &/I/ATT to turn on the power.

- **2** Turn on the connected component and start playing the source.
- **3** Adjust the volume.



**4** Adjust the sound characteristics as you want. (See pages 21 and 22.)





We recommend that you use DAB (Digital Audio Broadcasting) tuner KT-DB1500 or KT-DB1000 with your unit.

If you have another DAB tuner, consult your JVC IN-CAR ENTERTAINMENT dealer.

• Refer also to the Instructions supplied with your DAB tuner.

### What is DAB system?

DAB is one of the digital radio broadcasting systems available today. It can deliver CD quality sound without any annoying interference and signal distortion.

Furthermore, it can carry text, pictures, and data.

In contrast to FM broadcast, where each programme is transmitted on its own frequency, DAB combines several programmes (called "services") to form one "ensemble."

In addition, each "service"—called "primary service"—can also be divided into its components (called "secondary service").

With the DAB tuner connected with this unit, you can enjoy these DAB services.

#### Note:

When reception switches between DAB and FM, the listening volume level may increase or decrease inconveniently. This change in the volume level results from unequal audio injection levels at broadcaster site, but not from the malfunction of this unit. To prevent this inconvenience, you can adjust the DAB volume level. (See "To adjust the DAB volume level" on page 35.)

### Tuning in to an ensemble and one of the services

A typical ensemble has 6 or more programmes (services) broadcast at the same time. After tuning in to an ensemble, you can select a service you want to listen to.

#### Before you start ....

FM/AM

Press FM/AM (DAB) briefly if tape, CD changer, or external component is the current source.

### Select the DAB tuner.

Each time you press and hold the button, the DAB tuner and the FM/AM tuner are alternately selected.



## 2 Select the DAB band (DAB1, DAB2, or DAB3).

FM/AM DAB Each time you press the button, the DAB band changes as follows:

### $\rightarrow$ DAB1 $\rightarrow$ DAB2 $\rightarrow$ DAB3 -

#### Note:

This receiver has three DAB bands (DAB1, DAB2, DAB3). You can use any of them to tune in to an ensemble.

### **3** Start searching for an ensemble.



To search for ensembles of higher frequency

To search for ensembles of lower frequency

When an ensemble is received, searching stops.

To stop searching before an ensemble is received, press the same button you have pressed for searching.

## **4** Select a service (either primary or secondary) you want to listen to.



To select the next service (If a primary service has some secondary services, they are selected before the next primary service is selected.)

To select the previous service (either primary or secondary)

## To change the display information while tuning in to an ensemble

Normally service name is shown on the display. If you want to check the ensemble name or its frequency, press DISP (display).



Each time you press the button, the following information appears for a while on the display.

Service name	$\rightarrow$	DAB band
↑		¥
Clock		Ensemble name
↑		¥
Frequency	←	Channel number

### To tune in to a particular ensemble without searching

### Before you start ....

Press FM/AM (DAB) briefly if tape, CD changer, or external component is the current source.

- 1 Press and hold FM/AM (DAB) to select DAB tuner as the source.
- 2 Press FM/AM (DAB) repeatedly to select the DAB band (DAB1, DAB2, or DAB3).
- 3 Press and hold ►►I ∧ or I◄◀ ∨ for more than one second. "MANU" (manual) appears on the display.
- 4 Press ►►I or I◄◄ repeatedly until the ensemble you want is reached.
  - If you hold down the button, the frequency keeps changing until you release the button.
- 5 Press ▲ (up) or ▼ (down) to select a service (either primary or secondary) you want to listen to.

### To restore the FM/AM tuner

Press and hold FM/AM (DAB) again.

### Storing DAB services in memory

You can preset up to 6 DAB services in each DAB band (DAB1, DAB2, and DAB3) manually.

### Before you start ....

Press FM/AM (DAB) briefly if tape, CD changer, or external component is the current source.

### Select the DAB tuner.



Each time you press and hold the button, the DAB tuner and the FM/AM tuner are alternately selected.

### DAB 🔶 FM/AM

Select the DAB band (DAB1, DAB2, or DAB3) you want.



Each time you press the button, the DAB band changes as follows:

### $\rightarrow$ DAB1 $\rightarrow$ DAB2 $\rightarrow$ DAB3 -

### Tune in to an ensemble you want.



## Select a service of the ensemble you want to listen to.



**5** Press and hold the number button (in this example, 1) you want to store the selected service into for more than 2 seconds.





Selected service name and DAB band/preset number appear alternately for a while.



# 6 Repeat the above procedure to store other DAB services into other preset numbers.

#### Notes:

- You can only preset primary DAB services. If you store a secondary service, its primary service will be stored instead.
- A previously preset DAB service is erased when a new DAB service is stored in the same preset number.
- Preset DAB services are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the DAB services again.

# Tuning in to a preset DAB service

You can easily tune in to a preset DAB service. Remember that you must store services first. If you have not stored them yet, see "Storing DAB services in memory" on pages 33 and 34.

#### Before you start ....

Press FM/AM (DAB) briefly if tape, CD changer, or external component is the current source.

### Select the DAB tuner.



Each time you press and hold the button, the DAB tuner and the FM/AM tuner are alternately selected.

DAB 🔶 FM/AM

## 2 Select the DAB band (DAB1, DAB2, or DAB3) you want.

FM/AM DAB Each time you press the button, the DAB band changes as follows:

→ DAB1 → DAB2 → DAB3 –

Select the number (1 – 6) for the preset DAB service (primary) you want.



#### Note:

If the selected primary service has some secondary services, pressing the same number button repeatedly will tune in to the secondary services.



### What you can do more with DAB

## Tracing the same program automatically (Alternative Reception)

You can keep listening to the same program.

- While receiving a DAB service: When driving in an area where a service cannot be received, this unit automatically tunes in to another ensemble or FM RDS station, broadcasting the same program.
- While receiving an FM RDS station: When driving in an area where a DAB service is broadcasting the same program as the FM RDS station is broadcasting, this unit automatically tunes in to the DAB service.

#### Note:

When reception switches between DAB and FM, the listening volume level may increase or decrease inconveniently. This change in the volume level results from unequal audio injection levels at broadcaster site, but not from the malfunction of this unit. To prevent this inconvenience, you can adjust the DAB volume level (see the right column).

### To use Alternative Reception

When shipped from the factory, Alternative Reception is activated.

- See also "Changing the general settings (PSM)" on page 23.
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Press ►►I ∧ or I < ▼ to select "DAB AF" (alternative frequency).
- **3** Turn the control dial to select the desired mode.
  - AF ON: Traces the program among DAB services and FM RDS stations —Alternative Reception. The AF indicator lights up on the display (see page 11).
  - AF OFF: Alternative Reception is deactivated.
- 4 Press SEL (select) to finish the setting.

### Note:

When Alternative Reception (for DAB services) is activated, Network-Tracking Reception (for RDS stations: see page 11) is also activated automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception.

### To adjust the DAB volume level

You can adjust the volume level of DAB tuner and store it in memory. By adjusting the volume level properly to match it to the FM sound level, you will not need to adjust the volume level each time you change the source.

When shipped from the factory, DAB volume level is set at "00."

- See also "Changing the general settings (PSM)" on page 23.
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- 2 Press ►►I or I to select "DAB VOL" (DAB volume).
- **3** Turn the control dial to set to the desired volume.
  - You can set it from "VOL –12" to "VOL 12."
- 4 Press SEL (select) to finish the setting.

## » PREPARING THE REMOTE CONTROLLER

This unit can be remotely controlled as instructed here (with an optionally purchased remote controller). We recommend that you use remote controller RM-RK50 or RM-RK60 with your unit. (Ex.: When you are using RM-RK50)

Before using the remote controller:

 Aim the remote controller directly at the remote sensor on the main unit. Make sure there is no obstacle in between.

### Remote sensor



• Do not expose the remote sensor to strong light (direct sunlight or artificial lighting).

### Installing the battery

When the controllable range or effectiveness of the remote controller decreases, replace the battery.

### 1. Remove the battery holder.

- Push out the battery holder in the direction indicated by the arrow using a ball-point pen or a similar tool.
- 2) Remove the battery holder.



### 2. Place the battery.

Slide the battery into the holder with the + side facing upwards so that the battery is fixed in the holder.

Lithium coin battery (product number: CR2025)

### 3. Return the battery holder.

Insert again the battery holder by pushing it until you hear a clicking sound.



### WARNING:

- Store the battery in a place where children cannot reach.
   If a child accidentally swallows the battery, consult a doctor immediately.
- Do not recharge, short, disassemble, or heat the battery or dispose of it in a fire.
   Doing any of these things may cause the battery to give off heat, crack, or start a fire.
- Do not leave the battery with other metallic materials.

Doing this may cause the battery to give off heat, crack, or start a fire.

- When throwing away or saving the battery, wrap it in tape and insulate; otherwise, the battery may start to give off heat, crack, or start a fire.
- Do not poke the battery with tweezers or similar tools.

Doing this may cause the battery to give off heat, crack, or start a fire.

### CAUTION:

DO NOT leave the remote controller in a place (such as dashboards) exposed to direct sunlight for a long time. Otherwise, it may be damaged.



### **Remote controller**



- 1 Turns on the unit if pressed when the unit is turned off.
  - Turns off the unit if pressed and held until "SEE YOU" appears on the display.
  - Drops the volume level in a moment if pressed briefly.
     Press again to resume the volume.
- Selects the band while listening to the radio (or the DAB tuner).
   Each time you press the button, the band changes.
  - Changes the tape direction while listening to a cassette.

Each time you press the button, the tape direction changes alternately.

- While playing an MP3 disc on an MP3compatible CD changer;
  - Skips to the next disc if pressed briefly.
  - Skips to the next folder if pressed and held.
  - **Note:** While playing a CD on a CD changer, this always skips to the next disc.

 Selects the preset stations while listening to the radio (or the DAB tuner).
 Each time you press the button, the preset station (or service) number increases and

station (or service) number increases, and the selected station (or service) is tuned in.
While playing an MP3 disc on an MP3-

- While playing an MP3 disc on an MP3compatible CD changer;
  - Skips to the previous disc if pressed briefly.
  - Skips to the previous folder if pressed and held.

**Note:** While playing a CD on a CD changer, this always skips to the previous disc.

4 Functions the same as the control dial on the main unit.

**Note:** These buttons do not function for the preferred setting mode adjustment.

- Selects the sound mode (C-EQ: custom equalizer).
   Each time you press the button, the sound mode (C-EQ) changes.
- Selects the source.
   Each time you press the button, the source changes.
- $\fbox{2}$  Searches for stations while listening to the radio.
  - Selects services while listening to the DAB tuner if pressed briefly.
  - Searches for ensembles while listening to the DAB tuner if pressed for more than one second.
  - Functions as the fast-forward or rewind buttons if pressed and held while listening to a cassette.

To release this operation, press button 2 to resume playback.

- Functions as Multi Music Scan buttons if pressed while listening to a cassette.
   To release this operation, press button 2 to resume playback.
- Fast-forwards or reverses the track/file if pressed and held while listening to the CD changer.
- Skips to the beginning of the next track/file or goes back to the beginning of the current (or previous) tracks/files if pressed briefly while listening to the CD changer.



What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Causes	Remedies
	<ul> <li>Sound cannot be heard from the speakers.</li> </ul>	The volume level is set to the minimum level.	Adjust it to the optimum level.
al		Connections are incorrect.	Check the cords and connections.
General	This unit does not work at all.	The built-in microcomputer may have functioned incorrectly due to noise, etc.	Press the reset button on the panel holder after detaching the control panel. (The clock setting and preset stations stored in memory are erased.) (See page 2.)
=M/AM	<ul> <li>SSM (Strong-station Sequential Memory) automatic preset does not work.</li> </ul>	Signals are too weak.	Store stations manually.
	<ul> <li>Static noise while listening to the radio.</li> </ul>	The aerial is not connected firmly.	Connect the aerial firmly.
	A cassette tape cannot be ejected.	Cassette is locked.	Unlock the cassette. (See page 20.)
yback	<ul> <li>A cassette tape cannot be inserted.</li> </ul>	You have tried to insert a cassette in the wrong way.	Insert the cassette with the exposed tape facing right.
Tape Playback	Cassette tapes become hot.	This is not a malfunction.	
	<ul> <li>Tape sound is at very low level and sound quality is degraded.</li> </ul>	The tape head is dirty.	Clean it with a head cleaning tape.

**CD** Changer

Remedies

<ul> <li>"NO CD" appears on the display.</li> </ul>	No disc is in the magazine.	Insert discs into the magazine.
	Discs are inserted upside down.	Insert discs correctly.
	Discs are unplayable.	Insert playable discs.
	The current disc does not contain any MP3 files.	Insert a disc that contains MP3 files.
<ul> <li>"NO MAG" appears on the display.</li> </ul>	No magazine is loaded in the CD changer.	Insert the magazine.
<ul> <li>MP3 disc is skipped or cannot be played back.</li> </ul>	MP3 files do not have the extension code—mp3 in their file names.	Add the extension code —mp3 to their file names.
	MP3 files are not recorded in the format compliant with ISO 9660 Level 1, Level 2, or Joliet.	Change the disc. (Record MP3 files using a compliant application.)
<ul> <li>Noise is generated while playing an MP3 disc.</li> </ul>	The file played back is not an MP3 file (although it has the extension code—mp3).	Skip to another file or change the disc. (Do not add the extension code—mp3 to non- MP3 files.)
<ul> <li>A longer readout time is required for an MP3 disc.</li> </ul>	Readout time varies due to the complexity of the folder/file configuration.	Do not use too many hierarchies and folders. Also, do not record any other types of audio tracks together with MP3 files.
<ul> <li>MP3 files cannot be played back as you have intended them to play.</li> </ul>	Playback order is determined when the files are recorded.	
Elapsed playing time is not correct for an MP3 disc.	This sometimes occurs during play. This is caused by how the files are recorded on the disc.	
<ul> <li>"RESET 8" appears on the display.</li> </ul>	This unit is not connected to the CD changer correctly.	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
• "RESET 1" – "RESET 7" appears on the display.		Press the reset button of the CD changer.
The CD changer does not work at all.	The built-in microcomputer may have function incorrectly due to noise, etc.	Press the reset button on the panel holder after detaching the control panel. (The clock setting and preset stations stored in memory are erased.) (See page 2.)

Causes

Symptoms

This unit requires very little attention, but you will be able to extend the life of the unit if you follow the instructions below.

### To clean the head



 Clean the heads after every 10 hours of use using a wet-type head cleaning tape (available at an audio store).

When the head becomes dirty, you may realize the following symptoms:

- Sound quality is reduced.
- Sound level decreases.
- Sound drops out.
- Do not play dirty or dusty tapes.
- Do not touch the highly-polished head with any metallic or magnetic tools.

### To keep the tape clean



- Always store the cassettes in their storage cases after use.
- · Do not store cassettes in the following places:
  - Subject to direct sunlight
  - With high humidity
  - At extremely hot temperatures

### CAUTION:

- Do not play the cassettes with peeling labels; otherwise, they can damage the unit.
- Tighten tapes to remove slack since loose tape may become entangled with the mechanism.
- Do not leave a cassette in the cassette compartment after use, as the tape may become slack.

The function below is also provided to ensure the longer life of this unit.

## Ignition key-off release/Ignition key-on play

- Turning off the ignition key with a cassette in the compartment automatically releases the tape from the unit's tapehead.
- Turning on the ignition key with a cassette in the compartment starts playback automatically if you turned off the ignition during tape play.

ENGLISH

### AUDIO AMPLIFIER SECTION

Maximum Power Output: Front: 45 W per channel Rear: 45 W per channel Continuous Power Output (RMS): Front: 17 W per channel into 4 Ω. 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion. 17 W per channel into 4  $\Omega$ , 40 Hz Rear: to 20 000 Hz at no more than 0.8% total harmonic distortion. Load Impedance: 4  $\Omega$  (4  $\Omega$  to 8  $\Omega$  allowance) Tone Control Range: Bass: ±10 dB at 100 Hz Treble: ±10 dB at 10 kHz Frequency Response: 40 Hz to 20 000 Hz Signal-to-Noise Ratio: 70 dB Line-Out Level/Impedance: 2.0 V/20 kΩ load (250 nWb/m)

### TUNER SECTION

Frequency Range: FM1/FM2: 87.5 MHz to 108.0 MHz FM3: 65.00 MHz to 74.00 MHz AM: (MW) 522 kHz to 1 620 kHz (LW) 144 kHz to 279 kHz

### [FM Tuner]

Usable Sensitivity: 11.3 dBf  $(1.0 \mu V/75 \Omega)$ 50 dB Quieting Sensitivity: 16.3 dBf  $(1.8 \mu V/75 \Omega)$ Alternate Channel Selectivity (400 kHz): 65 dB Frequency Response: 40 Hz to 15 000 Hz Stereo Separation: 35 dB Capture Ratio: 1.5 dB

### [MW Tuner]

Sensitivity: 20 µV Selectivity: 35 dB

[LW Tuner] Sensitivity: 50 µV

### **CASSETTE DECK SECTION**

Wow & Flutter: 0.11% (WRMS) Fast-Wind Time: 100 sec. (C-60) Frequency Response: 30 Hz to 16 000 Hz (Normal tape) Signal-to-Noise Ratio: 56 dB Stereo Separation: 40 dB

### <u>GENERAL</u>

 $\begin{array}{l} \mbox{Power Requirement:} \\ \mbox{Operating Voltage: DC 14.4 V} \\ (11 V to 16 V allowance) \\ \mbox{Grounding System: Negative ground} \\ \mbox{Allowable Operating Temperature: 0°C to +40°C} \\ \mbox{Dimensions (W \times H \times D):} \\ \mbox{Installation Size (approx.):} \\ \mbox{182 mm} \times 52 mm \times 150 mm \\ \mbox{Panel Size (approx.):} \\ \mbox{188 mm} \times 58 mm \times 12 mm \\ \mbox{Mass (approx.):} \\ \mbox{1.5 kg (excluding accessories)} \\ \end{array}$ 

Design and specifications are subject to change without notice.

## Having TROUBLE with operation? Please reset your unit

Refer to page of How to reset your unit

## Затруднения при эксплуатации? Пожалуйста, перезагрузите Ваше устройство

Для получения информации о перезагрузке Вашего устройства обратитесь на соответствующую страницу





## JVC KS-FX845R Installation/Connection Manual Руководство по установке/подключению

GET0141-002A [EE]

### ENGLISH

• This unit is designed to operate on 12 V DC, NEGATIVE ground electrical systems.

## **INSTALLATION (IN-DASH MOUNTING)**

- · The following illustration shows a typical installation. However, you should make adjustments corresponding to your specific car. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.
- 1 Before mounting: Press (control panel release button) to detach the control panel if already attached
  - \* When shipped from the factory, the control panel is packed in the hard case.
- **2** Remove the trim plate.
- **3** Remove the sleeve after disengaging the sleeve locks.
  - ① Stand the unit.
  - Note: When you stand the unit, be careful not to damage the fuse on the rear.
  - ② Insert the 2 handles between the unit and the sleeve, as illustrated, to disengage the sleeve locks. ③ Remove the sleeve.
  - Note: Be sure to keep the handles for future use after installing the unit.
- 4 Install the sleeve into the dashboard.
- After the sleeve is correctly installed into the dashboard, bend the appropriate tabs to hold the sleeve firmly in place, as illustrated.
- $m{5}$  Fix the mounting bolt to the rear of the unit's body and place the rubber cushion over the end of the bolt.
- **6** Do the required electrical connections.
- 7 Slide the unit into the sleeve until it is locked.
- **8** Attach the trim plate.
- Note: Ensure the recessed part is at the bottom. If not, the control panel will not open completely.
- **9** Attach the control panel.





0403KKSMDTJEIN EN, RU

### РУССКИЙ

• Это устройство разработано для эксплуатации на 12 В постоянного напряжения с минусом на массе.

## УСТАНОВКА (УСТАНОВКА В ПРИБОРНУЮ ПАНЕЛЬ)

- На следующих иллюстрациях показана типовая установка. Тем не менее, Вы должны сделать поправки в соответствии с типом Вашего автомобиля. Если у Вас есть какие-либо вопросы, касающиеся установки, обратитесь к Вашему дилеру JVC IN-CAR ENTERTAINMENT или в компанию, поставляющую соответствующие принадлежности.
- 1 Перед установкой: Нажмите кнопку 📥 (кнопка освобождения панели управления) для отсоединения панели управления, если она уже прикреплена.
  - \* При отправке с завода панель управления упакована в твердую коробку.
- 2 Удалите декоративную панель.
- **3** Удалите муфту после освобождения запоров муфты.
  - ① Установите устройство. Примечание: Устанавливайте устройство таким образом, чтобы не повредить предохранитель, расположенный сзади.
  - 2 Вставьте два рычага между устройством и муфтой, как показано на рисунке, для освобождения запоров муфты.
  - Удалите муфту. Примечание: После установки устройства сохраните рычаги для использования в будущем.
- 4 Установите муфту в приборную панель.
  - \* После установки муфты в приборную панель согните соответствующие зубцы для фиксации муфты, как показано на рисунке.
- 5 Затяните Крепежный болт на задней части корпуса устройства и наденьте резиновый чехол на конец болта
- **б** Выполните необходимые подключения контактов, как показано на оборотной стороне этой инструкции
- 7 Задвиньте устройство в муфту до упора
- 8 Установите декоративную панель.

Примечание: Обеспечьте, чтобы часть с выемкой была внизу. Если это не так, то панель управления полностью не откроется.

9 Прикрепите панель управления.



1



### ENGLISH

## **ELECTRICAL CONNECTIONS**

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit. If you are not sure how to install this unit correctly, have it installed by a qualified technician.

#### Note:

This unit is designed to operate on **12 V DC**, **NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC IN-CAR ENTERTAINMENT dealers.

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC IN-CAR
- ENTERTAINMENT dealer.If noise is a problem...

This unit incorporates a noise filter in the power circuit. However, with some vehicles, clicking or other unwanted noise may occur. If this happens, connect the unit's **rear ground terminal** (see connection diagram) to the car's chassis using shorter and thicker cords, such as copper braiding or gauge wire. If noise still persists, consult your JVC IN-CAR ENTERTAINMENT dealer.

Maximum input of the speakers should be more than 45 W at the rear and 45 W at the front, with an impedance of 4 Ω to 8 Ω.

- Be sure to ground this unit to the car's chassis.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



### **Ш** Typical Connections / Типичные подключения

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.

The leads of the power cord and those of the connector from the car body may be different in color.

1 Connect the colored leads of the power cord to the car battery, speakers and power aerial (if any) in the following sequence.

- ① Black: ground
- 2 Yellow: to car battery (constant 12 V)
- ③ Red: to an accessory terminal
- ④ Blue with white stripe: to remote lead of other equipment or power aerial if any (200 mA max.)
- (5) Brown: to cellular phone system (For details, refer to the instructions of the cellular phone.)
- 6 Others: to speakers

### **2** Connect the aerial cord.

3 Finally connect the wiring harness to the unit.

Note: If your vehicle does not have any accessory terminal, move the fuse from the fuse position 1 (initial position) to fuse position 2, and connect the red lead (A7) to the positive (+) battery terminal.
The yellow lead (A4) is not used in this case.

РУССКИЙ

## ЭЛЕКТРИЧЕСКИЕ ПОДКЛЮЧЕНИЯ

Для предотвращения коротких замыканий мы рекомендуем Вам отсоединить отрицательный разъем аккумулятора и осуществить все подключения перед установкой устройства. Если Вы не знаете точно, как следует устанавливать это устройство, обратитесь к квалифицированному специалисту.

#### Примечание:

Это устройство разработано для эксплуатации на **12 В постоянного напряжения с минусом на массе** Если Ваш автомобиль не имеет этой системы, требуется инвертор напряжения, который может быть приобретен у дилера JVC IN-CAR ENTERTAINMENT.

- Заменяйте предохранитель другим предохранителем указанного класса. Если предохранитель сгорает слишком часто, обратитесь к дилеру JVC IN-CAR ENTERTAINMENT.
- При появлении сильных помех...
   Это устройство оснащено фильтром помех в цепи питания. Однако в некоторых случаях возможно появление щелчков и других нежелательных помех. В этом случае подключите задний разъем заземления этого устройства (см. схему подключения ниже) к шасси автомобиля при помощи более коротких и толстых проводов. Если помехи не исчезают, обратитесь к дилеру JVC IN-CAR ENTERTAINMENT.
- Максимальная входная мощность громкоговорителей должна быть больше 45 Вт сзади и 45 Вт впереди при полном сопротивлении от 4 Ω до 8 Ω.
- Не забудьте заземлить устройство на шасси автомобиля.
- Радиатор во время использования сильно нагревается. Старайтесь его не трогать во время удаления устройства.

**Перед началом подключений:** Тщательно проверьте проводку в автомобиле. Неправильное подключение может привести к серьезному повреждению устройства. Жилы силового кабеля и жилы соединителя от кузова автомобиля могут быть разного цвета.

- 1 Подключите цветные провода кабеля питания к аккумулятору, громкоговорителям и автономной антенне (если есть) в следующем порядке:
  - 1 Черный: земля
  - ② Желтый: к аккумулятору (постоянный 12 В)
  - З Красный: к вспомогательному разъему
  - ④ Синий с белой полосой: к удаленному проводу другого оборудования или антенны (макс. 200 мА).
  - (5) Коричневый: к системе сотового телефона (Детали смотрите в инструкции сотового телефона.)
  - 6 Другие: к громкоговорителям
- 2 Подключите кабель антенны.

**3** В последнюю очередь подключите электропроводку к устройству.

Примечание: Если в Вашем автомобиле никакого вспомогательного разъема не имеется, переставьте предохранитель из положения 1 предохранителя (первоначальное положение) в положение 2 предохранителя и подключите красный провод (А7) к положительному (+) полюсу аккумулятора.

• Желтый провод (А4) в этом случае не используется.

#### JVC CD changer / DAB-Tuner / External component jack Гнездо проигрывателя-автомата компакт-дисков JVC / DAB-тюнера / внешнего компонента

We recommend you to connect the JVC MP3-compatible CD changer. You can also connect other CH-X series CD changers (except CH-X99 and CH-X100). • You cannot use the KD-MK series CD changers with this unit. You can also use an external component such as a portable MD player by connecting the Line Input Adapter KS-U57 (not supplied). (See diagram **E**.)

Рекомендуется подключать совместимое с MP3 устройство автоматической смены компакт-дисков компании JVC. Кроме того, можно

подключать одно из устройств автоматической смены компакт-дисков серии CH-X (кроме CH-X99 и CH-X100). • С данным устройством нельзя использовать устройства автоматической смены компакт-дисков серии KD-MK.

Вы можете также использовать внешний компонент, такой как портативный проигрыватель минидисков, подсоединив адаптер входной линии KS-U57 (не поставляется). (Смотрите диаграмму **B**.)



### **PRECAUTIONS** on power supply and speaker connections:

- DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.
- Connect the black lead (ground), yellow lead (to car battery, constant 12 V), and red lead (to an accessory terminal) correctly
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car
- If the speaker wiring in your car is as illustrated in Fig. 1 and Fig. 2 below, DO NOT connect the unit using that original speaker wiring. If you do, the unit will be seriously damaged.
- Redo the speaker wiring so that you can connect the unit to the speakers as illustrated in Fig. 3.
- If the speaker wiring in your car is as illustrated in Fig. 3, you can connect the unit using the original speaker wiring in your car.
- If you are not sure of the speaker wiring of your car, consult your car dealer.





#### Connecting the leads / Подключение контактов

### Twist the core wires when connecting.



### E Connections Adding Other Equipment / Подключение других устройств

- You can connect an amplifier to upgrade your car stereo system.
- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- For amplifier only:

Amplifier / Усилитель

Fia.

- Connect this unit's line-out terminals to the amplifier's line-in terminals.
- Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused. (Cover the terminals of these unused leads with insulating tape, as illustrated above.)

- ПРЕДОСТЕРЕЖЕНИЯ по питанию и подключению громкоговорителей:
- НЕ подключайте провода громкоговорителей к аккумулятору автомобиля, иначе устройство будет повреждено.
- Правильно подключите черный провод (земля), желтый провод (в аккумулятор, постоянный ток 12 В) и красный провод (в вспомогательный разъем).
- ПЕРЕД подключением проводов громкоговорителей к кабелю питания громкоговорителя проверьте схему соединений громкоговорителей в Вашем автомобиле.
- Если проводка громкоговорителей в Вашем автомобиле такая, как показано на приводимых ниже Fig. 1 и Fig. 2, НЕ подключайте устройство с помощью первоначальной проводки громкоговорителей.

Если Вы это сделаете, устройство будет серьезно повреждено. Переделайте проводку громкоговорителей так, чтобы Вы могли подключить устройство к громкоговорителям, как это показано на Fig. 3.

- · Если проводка громкоговорителей в Вашем автомобиле такая, как показано на Fig. 3, Вы можете подключить устройство с помощью первоначальной проводки громкоговорителей в Вашем автомобиле.
- Если Вы не знаете соединение громкоговорителей в Вашем автомобиле, обратитесь к Вашему автомобильному дилеру.

### САUTION / ПРЕДОСТЕРЕЖЕНИЕ:

• To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape. • Для предотвращения короткого замыкания заклейте НЕИСПОЛЬЗУЕМЫЕ концы изолирующей лентой



JVC CD changer

Проигрывателем-автоматом

компакт-дисков JVC

Для обновления автомобильной стереосистемы Вы можете подключить усилитель. • Подсоедините провод внешнего устройства (синий с белой полосой) к проводу внешнего

- устройства другого оборудования так, чтобы им можно было управлять с этого устройства. Только для усилителя:
- Подключите выходные клеммы данного устройства к входным клеммам усилителя. Отсоедините громкоговорители от данного устройства, подключите их к усилителю. Оставьте провода громкоговорителей данного устройства неиспользованными. (Замотайте клеммы этих неиспользованных проводов изоляционной лентой, как показано выше.)



Соединительный кабель, поставляемый с Вашим тюнером DAB или проигрывателемавтоматом компакт-дисков

0

или



Соединительный кабель, поставляемый с

Вашим проигрывателем-автоматом компакт-

· You can connect both components in series as illustrated above.

Connecting cord supplied with your DAB tuner

Соединительный шнур входит в комплект

Вы можете подключить оба компонента параллельно, как проиллюстрировано выше.

External Component / Внешний компонент

### **CAUTION / ПРЕДУПРЕЖДЕНИЕ:**

KS-FX845R

Before connecting the CD changer and/or the DAB tuner, make sure that the unit is turned off.

JVC DAB tuner

**Тюнер DAB JVC** 

• Перед подключением проигрывателя-автомата компакт-дисков и/или тюнера DAB убедитесь, что данное устройство выключено



## **TROUBLESHOOTING**

#### · The fuse blows.

- Are the red and black leads connected correctly?
- Power cannot be turned on.
- \* Is the yellow lead connected?
- · No sound from the speakers.
- \* Is the speaker output lead short-circuited?
- · Sound is distorted.
- \* Is the speaker output lead grounded?
   \* Are the "--" terminals of L and R speakers grounded in common?
- Unit becomes hot.
- Is the speaker output lead grounded?
- Are the "--" terminals of L and R speakers grounded in common?

## ВЫЯВЛЕНИЕ НЕИСПРАВНОСТЕЙ

- Сработал предохранитель.
- \* Правильно ли подключены черный и красный провода?
- Питание не включается.
- \* Подключен ли желтый провод?
- Звук не выводится через громкоговорители.
- \* Нет ли короткого замыкания на кабеле выхода громкоговорителей?
- Звук искажен.
- \* Заземлен ли провод выхода громкоговорителей?
   \* Заземлены ли разъемы "--" правого (R) и левого (L) громкоговорителей?
- Устройство нагревается.
- Заземлен ли провод выхода громкоговорителей? Заземлены ли разъемы "–" правого (R) и левого (L) громкоговорителей?